BIOTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/849,526

Source: OIPE

Date Processed by STIC: 7/24/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U S PATENT AND TRADEMARK OFFICE WEBSITE SEE BELOW

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1 821 - 1 825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

SERIAL NUMBER: [illegible]7/591[illegible]20

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

	ERROR DETECTED	SUGGESTED CORRECTION
1	_____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	_____ Invalid Line Length	The rules require that a line **not exceed 72** characters in length. This includes white spaces.
3	_____ Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	_____ Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	_____ Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	_____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) ___________. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	___ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	___ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	___ Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	___ Use of <220>	Sequence(s) ________ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)
12	_ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	___ Misuse of n	n can only be used to represent a single **nucleotide** in a nucleic acid sequence. N is **not** used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch 08/21/2001

If you use any of the fields 221, 222 or 223 these fields must be preceded by the 220 field. The 220 field is a header field for the introduction of the different "features" described in 221, 222 or 223

The types of errors shown exist <u>throughout</u> the Sequence Listing. Please check subsequent sequences for similar errors.

OIPE

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RAW SEQUENCE LISTING                        DATE: 07/24/2001
PATENT APPLICATION:  US/09/849,526          TIME: 09:10:28

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Output Set: N:\CRF3\07242001\I849526.raw

          1 <110> APPLICANT: Ruff, Thomas G.
          2       Shukla, Hridayabhiranjan
          4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
          5       Plants
          7 <130> FILE REFERENCE: 38-21(51930)B
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C-->      9 <141> CURRENT FILING DATE: 2001-05-07
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         20 <151> PRIOR FILING DATE: 2001-03-26
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The types of errors shown exist <u>throughout</u> the Sequence Listing. Please check subsequent sequences for similar errors.

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115 gtcagttggt gcgtaaatca tacaaaaaaa aactaaaaaa ccctgttctt attttgctac  180
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121 caaagtaaag gacgcatctc tatagcgcag caccgagttc cagcatcaaa gtatggttcg  360
123 agtcattact tccaggccca ctgaactgga tggggccagg gctgatgtat ctgttcttga  420
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PATENT APPLICATION: US/09/849,526              TIME: 09:10:28

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     423 ggatttgtga gccttcttac ttcagatggc aacactaagg atgatcttag actcccaact   420
     425 gatgagactc ttgtggccca gatcaaggaa gggtttgaaa gcggcaagga tcttgttgtg   480
     427 actgtccagt ctgctatggg ggaggag                                       507
     430 <210> SEQ ID NO: 16
     431 <211> LENGTH: 559
     432 <212> TYPE: DNA
     433 <213> ORGANISM: Zea mays subsp. mexicana
     435 <220> FEATURE:
     436 <221> NAME/KEY: unsure
     437 <222> LOCATION: (1)..(559)
```

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
VERIFICATION SUMMARY                         DATE: 07/24/2001
PATENT APPLICATION:  US/09/849,526           TIME: 09:10:29

Input Set : D:\Pa_00348.rpt
Output Set: N:\CRF3\07242001\I849526.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:2229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87
L:2257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:2287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:2349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:2531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98
L:2965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:3065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:3067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:3289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129
L:3409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:3543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139
L:3679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
L:3823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150
L:4119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162
L:4201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165
L:4395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173
L:4405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:4645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:4969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197
L:5001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198
L:5103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202
L:5163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:5587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:5589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:5939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
L:6125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244
L:6495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264
L:6859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276
L:7259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291
L:7335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294
L:7381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296
L:7411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297
L:7425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297
```

```
VERIFICATION SUMMARY                            DATE: 07/24/2001
PATENT APPLICATION:  US/09/849,526              TIME: 09:10:29

Input Set : D:\Pa_00348.rpt
Output Set: N:\CRF3\07242001\I849526.raw

L:7441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298
L:7455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298
L:7551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302
L:7619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305
```